

IN THE ABSTRACT:

Delete the current Abstract and replace therewith the attached substitute Abstract.

In an OFDM packet communication receiver, the deterioration of received signal quality is suppressed, even when carrier frequency error and/or clock frequency error exists between a transmitter and a receiver, and/or phase noise and/or thermal noise is superimposed to a received signal in a receiver. ~~The receive system comprises a channel estimate means (106) for channel estimation by using subcarriers separated by a Fourier transformation, a coherent detection means (107) for coherent detection of subcarriers by using result of channel estimation of an output of said channel estimate means, a clock frequency error estimate means (108, 110, 111) for estimating phase rotation ($\Delta\theta$) of each subcarriers caused by clock frequency error ($f_{\text{RECLK}} - f_{\text{TCLK}}$) by detecting phase rotation or accumulated phase rotation between coherent detected signal (R1, R2) and related reference signal (S1 through S16) by using a part of or all of the coherent detected signals, and a phase compensation means (109) for compensating phase rotation of coherent detected signal according to estimated clock frequency error. Phase compensated signal is applied to a decision means (112) for deciding 1 or 0 of a symbol.~~

(Fig.1)